

<b>Notice of Allowability</b>	<b>Applicati n No.</b>	<b>Applicant(s)</b>	
	09/989,996	KHALID, SHAHZAD	
	<b>Examin r</b>	<b>Art Unit</b>	
	Connie C. Yoha	2818	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 7/21/03.
2. ☒ The allowed claim(s) is/are 1,2,5-8 and 10-22.
3. ☒ The drawings filed on 11/20/01 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☐ including changes required by the proposed drawing correction filed \_\_\_\_\_, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- |   |   |
|---|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)   | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                         | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>0302</u> . | 6 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                  |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material      | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|   | 9 <input type="checkbox"/> Other _____  |

*Connie C. Yoha*  
Technology 2800

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter A. Gallagher on 9/30/03.

2. The application has been amended as follows:

Claim 1, line 3, delete "lit line". Replace it with --- bit-line ---.

Claim 1, after the last word of the claim, add the following text: --- such that the amplified voltage signal increasingly deviates from the predetermined reference voltage with increasing time ---.

Claim 10, after the last word of the claim, add the following text: --- such that the amplified voltage signal increasingly deviates from the predetermined reference voltage with increasing time ---.

Claim 18, after the last word of the claim, add the following text: --- such that the amplified voltage signal increasingly deviates from the predetermined reference voltage with increasing time ---.

***Response to Arguments***

3. Examiner took notice of the remarks and amendments made by applicant filed on 7/21/03.

***Response to Amendment***

4. This office action is in response to Amendment filed on 7/21/03.  
  
Claim 5, 19, 20 and 21 are amended.  
  
Claims 3, 4 and 9 are canceled.
5. Claims 1-2, 5-8, and 10-22 are pending.

***Allowable Subject Matter***

6. Claims 1-2, 5-8, and 10-22 are allowed.

Claims 1-2, 5-8, and 10-22 are considered allowable since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed inventions having a device and method of reconfiguring the pre-charge circuit as an amplifier circuit to amplifying the voltage signal such that the amplified voltage signal increasingly deviates from the predetermined reference voltage with increasing time. Prior art also does not teach or suggest the claimed invention having the pre-charge circuit to includes a unit gain buffer having an input to which a predetermined reference voltage is applied, and an output coupled to provide a bias current to the cascode device to pre-charge the bit-line by charging a node of the cascode device to the predetermined reference voltage.


**Conclusion**

7. Any inquiry concerning this communication should be directed to Connie Yoha whose telephone number is (703) 306-5731. The examiner can normally be reached on Monday-Thursday from 8:00 A.M. to 5:30 PM.

8. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms, can be reached on (703) 308-4910. The fax phone number for this Group is (703) 872-9306. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-0956.

  
**C.Yoha**

September 2003

  
Connie C. Yoha  
Technology 2800